

## **ITEM 10608.9401M - STREETPRINT™ ASPHALT PAVEMENT COLOR/TEXTURE SYSTEM**

### **DESCRIPTION:**

This work shall consist of furnishing and installing StreetPrint™ Pavement Texturing System, as manufactured by, Integrated Paving Concepts Inc., #102 - 17957 - 55 Ave.

Surrey, BC V3S 6C4, Phone: (604) 574-7510, FAX: (604) 574-7520. StreetPrint™ Pavement Texturing System shall be installed on new Hot Mix Asphalt Concrete (HMA) pavement. The surface of the HMA shall be patterned and colored to create the appearance of hand laid decorative paving stones by an authorized StreetPrint™ applicator.

### **MATERIALS**

- A. Hot Mix Asphalt Concrete (HMA) - The HMA shall conform with requirements specified elsewhere in the contract documents.
- B. Surface System - The surfacing system shall consist of two (2) coats of an integrally colored, cement modified acrylic polymer with one coat of sealer. The integrally colored, cement modified acrylic polymer shall be StreetBond™ - Traffic Formula. The sealer coat shall be a curing membrane of StreetBond™ - Sealer Concentrate. The color of the cement modified acrylic polymer shall be as specified on the contract plans.
- C. Maintenance Kit - The contractor shall supply one maintenance kit to the Engineer. The maintenance kit shall include:
- 1 - 1.0m x 2.75m "british cobble" form with 100mm x 100mm openings
  - 1 - .6m x 1.2m "square grid" form with 100mm x 100mm openings
  - 1 - finishing tool
  - 2 - boxes traffic formula coating (coverage approximately 28 m<sup>2</sup>/box)
  - 2 - boxes sealer concentrate (coverage approximately 185 m<sup>2</sup>/box)
- D. Pattern - Steel pattern used to imprint the HMA shall be as supplied by the authorized StreetPrint™ applicator. The paving pattern shall be as specified in the contract plans.

### **CONSTRUCTION DETAILS:**

Only the authorized StreetPrint™ applicator shall be allowed to install the textured pattern and surface treatment. The contractor shall submit verification of authorization for the StreetPrint applicator to the Engineer 21 days before fabrication commences. It will then be at the discretion of the contractor to allow the StreetPrint™ applicator to install the Hot Mix Asphalt, or to perform this task themselves. The texture and surface treatment shall be installed in the position and manner indicated on the plans and approved by the Engineer.

Surface Imprinting - The contractor shall follow procedures detailed in the latest revision of StreetPrint™ Application Procedures as issued by the manufacturer. The pattern shall be created in accordance with the design as shown on the plans. Patterning shall begin once the asphalt has reached its final density and while there is still sufficient heat in the asphalt to permit imprinting. Patterning shall be achieved using steel rollers and/or vibratory plates and shall be of consistent depth. Patterning shall be done only at areas specified on the plans.

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Surfacing System - The contractor shall apply two (2) coats of the StreetBond Traffic Formula specified in Materials section of this specification. Installation shall be in accordance with the latest revision of the StreetPrint Application Procedures as issued by Integrated Paving Concepts Inc. StreetPrint Surfacing System shall not be applied when the temperatures are below 7.2° C or when precipitation is expected within 24 hours. The StreetBond system shall be spray applied and broomed using a broom or brushes to cut-in areas where required. Care shall be taken to ensure that the entire surface is covered, including the imprinted surfaces. Sufficient masking (payment covered under this item) shall be used to ensure that the surfacing products are applied only where specified. Coverage rates shall be monitored to ensure adequate build is achieved. StreetBond shall be applied at a minimum coverage rate of 1.85 square meters per liter per coat. Once the StreetBond Traffic Formula is dried in accordance with performance properties, one coat of a curing membrane of StreetBond Sealer Concentrate shall be applied at the coverage rate of 7.5 square meters per liter. Coverage rates shall be monitored to ensure adequate build is achieved.

Testing - The contractor shall prepare a test panel of not less than one square meter at a location to be determined by the engineer for the inspection and approval by the Engineer. The contractor shall not proceed with the imprinting, coloring and sealing of the areas specified on the plans until directed to do so by the Engineer.

### **METHOD OF MEASUREMENT:**

The installation of the StreetPrint™ Pavement Texturing System will be measured by the number of square meters of hot mix asphalt satisfactorily imprinted, colored and sealed in accordance with the plans, this specification and as approved by the Engineer.

### **BASIS OF PAYMENT:**

The unit price bid per square meter shall include the cost of test panels, maintenance kit and the furnishing all labor, materials, equipment and tools necessary to complete the work. The asphalt pavement will be paid for under separate individual items.

Areas where the Streetprint™ Pavement Texturing System is deemed unacceptable by the Engineer will not be measured for payment. The contractor may be directed by the Engineer to re-apply the Streetprint™ Pavement Texturing System to the satisfaction of the Engineer before payment is made. Milling and re-installation of asphalt topcourse and reapplication of misapplied Streetprint™ Pavement Texturing System will be done at the contractors expense.